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**CONFIRMATION
TELEPHONE:** (571) 272-2800

FROM: Jeffrey M. Chamberlain, Esq.

DIRECT DIAL: 609.631.2491

DATE: March 4, 2005

USER NUMBER: 3925

FILE NUMBER: Attorney Docket No. TS03-636; U.S. Serial No. 10/812,729

**TOTAL # OF PAGES:
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CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8)

Applicant(s): Hsien-Ping Feng et al.

Docket No.

TS03-636 (N1085-90080)

Application No.
10/812,729Filing Date
March 30, 2004Examiner
TBAGroup Art Unit
2811

Invention:

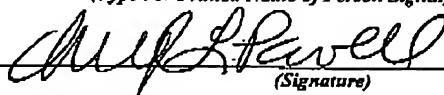
POST ECP MULTI-STEP ANNEAL/H2 TREATMENT TO REDUCE FILM IMPURITY

I hereby certify that this Transmittal Letter, Revocation of Power of Attorney and Appointment of New ***
(Identify type of correspondence)

is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. 703-872-9306)

on March 4, 2005
(Date)

Cheryl L. Powell

(Typed or Printed Name of Person Signing Certificate)

(Signature)

Note: Each paper must have its own certificate of mailing.

*** Power of Attorney (with Change of Correspondence Address)
 Transmittal, Revocation and Substitution of Power of Attorney
 and Assignment

Attorney Docket No.: TS03-636 (N1085-90080)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hsien-Ping Feng et al.

Serial No.: 10/812,729

Filed: March 30, 2004

Group Art Unit: 2811

Examiner: TBA

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MAR 04 2005

Confirmation No.: 4817

For: Post ECP Multi-Step Anneal/H2 Treatment
To Reduce Film Impurity

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March 4, 2005
Date

Cheryl L. Powell

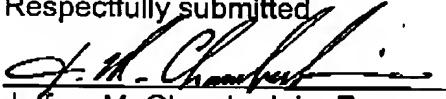
TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed herewith is a Revocation of Power of Attorney and Appointment of New Power of Attorney (with Change of Correspondence Address) Transmittal, Revocation and Substitution of Power of Attorney and Assignment for the above-captioned U.S. patent application.

Respectfully submitted,


Jeffrey M. Chamberlain, Esq.
Registration No. 55,044
Attorney for Applicant(s)

DUANE MORRIS LLP
100 College Road West, Suite 100
Princeton, NJ 08540
Tel: 609-919-4491
Fax: 609-919-4401

PTO/SB/82 (03-03)

Approved for use through 11/30/2005. OMB 0651-0036

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**REVOCATION OF POWER OF
ATTORNEY and
APPOINTMENT OF NEW
POWER OF ATTORNEY**

Application Number	10/812,729
Filing Date	March 30, 2004
First Named Inventor	HSien-Ping Feng et al.
Art Unit	2811
Examiner Name	TBA
Attorney Docket	TS03-636

I hereby revoke all previous powers of attorney given in the above-identified application:

 A Power of Attorney is submitted herewith.

OR

 I hereby appoint the practitioners associated with the Customer Number: Please change the correspondence address for the above-identified application to: The address associated with
Customer Number:

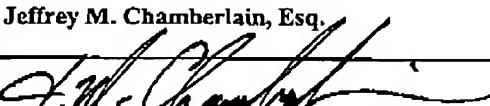
08933

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
Address			
City			
Country	State	ZIP	
Telephone	Fax		

I am the:

 Applicant/Inventor Attorney for
Assignee of record of the entire interest. See 37 CFR 3.71
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Name	Jeffrey M. Chamberlain, Esq.		
Signature			
Date	March 4, 2005	Telephone	(609) 631-2491

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

 *Total of 1 forms are submitted.

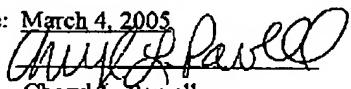
This collection of information is required by 37 CFR 1.38. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Date: March 4, 2005
By: 
Cheryl L. Powell

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou	Registration Number: 41,672
Simon Lu	Registration Number: 51,974

PATENT

Please change the correspondence address for all the applications listed below to:

Customer No. 08933
 William H. Murray
 DUANE MORRIS LLP
 One Liberty Place
 Philadelphia, PA 19103-7396
 Fax (215) 979-1000

All telephone calls for all applications listed below should be addressed to Steven H. Koff at (215) 979-1250.

CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications.

Serial No.	Filing Date	Assignment Information
09/285,986	04/05/1999	Assignment recorded in the Patent and Trademark Office at Reel 098781, Frame 0880
09/623,644	08/07/2000	Assignment recorded in the Patent and Trademark Office at Reel 011005, Frame 0900
09/679,514	10/06/2000	Assignment recorded in the Patent and Trademark Office at Reel 011228, Frame 0408
09/961,557	09/24/2001	Assignment recorded in the Patent and Trademark Office at Reel 012210, Frame 0901
10/074,881	02/12/2002	Assignment recorded in the Patent and Trademark Office at Reel 012594, Frame 0025
10/126,388	04/19/2002	Assignment recorded in the Patent and Trademark Office at Reel 012839, Frame 0167
10/134,823	04/26/2002	Assignment recorded in the Patent and Trademark Office at Reel 012869, Frame 0133
10/197,327	07/17/2002	Assignment recorded in the Patent and Trademark Office at Reel 013121, Frame 0429
10/243,414	09/13/2002	Assignment recorded in the Patent and Trademark Office at Reel 013303, Frame 0192
10/253,270	09/24/2002	Assignment recorded in the Patent and Trademark Office at Reel 013328, Frame 0885
10/263,542	10/03/2002	Assignment recorded in the Patent and Trademark Office at Reel 013361, Frame 0026
10/271,005	10/15/2002	Assignment recorded in the Patent and Trademark Office at Reel 012357, Frame 0898

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PATENT

10/289,761	11/07/2002	Assignment recorded in the Patent and Trademark Office at Reel 013477, Frame 0227
10/314,664	12/09/2002	Assignment recorded in the Patent and Trademark Office at Reel 013559, Frame 0844
10/348,388	01/21/2003	Copy of Assignment attached
10/410,121	04/09/2003	Assignment recorded in the Patent and Trademark Office at Reel 013959, Frame 0600
10/613,694	07/03/2003	Assignment recorded in the Patent and Trademark Office at Reel 012163, Frame 0350
10/724,784	12/01/2003	Copy of Assignment attached
10/765,496	01/12/2004	Assignment recorded in the Patent and Trademark Office at Reel 013129, Frame 0294
10/812,729	03/30/2004	Copy of Assignment attached
10/833,178	04/27/2004	Copy of Assignment attached
10/833,176	04/27/2004	Assignment recorded in the Patent and Trademark Office at Reel 011983, Frame 0805
10/833,565	04/28/2004	Copy of Assignment attached
10/838,674	05/04/2004	Copy of Assignment attached

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 9/1/2004 By: Chien-Wei Chou
 Name: Chien-Wei Chou
 Title: Director, Intellectual Property Division

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TS03-636

For U.S. and/or Foreign RightsFor Application or U.S. PatentBy Inventor(s) or Present Owner**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:**HSIEN-PING FENG**

Type or print name of ASSIGNOR

4F, No.9-4, Lane 52, Yusi St.,
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China

JUNG-CHIH TSAO

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Taiwan R.O.C., Republic
of China

CHIH-TSUNG LEE

Type or print name of ASSIGNOR

No 1, Lane 229, Minghu Rd.,
Address
Hsinchu City 300, Taiwan
R.O.C., Republic of China, Taiwan

ASSIGNEE:

Taiwan Semiconductor Manufacturing Co.
No. 8, LI-Hsin Rd. 6
Science Based Industrial Park
Hsin-Chu Taiwan 300-77
R.O.C.
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest

an undivided _____ percent (____%) interest for the United States and its territorial possessions
(check the following box if foreign rights are also to be assigned)

and in all foreign countries

in and to any and all improvements which are disclosed in the Invention entitled:

Post Ecp Multi-Step Anneal/UH Treatment To Reduce Film Impurity

TS03-636

For U.S. and/or Foreign RightsFor Application or U.S. PatentBy Inventor(s) or Present Owner**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:**MING-YUAN CHENG**

Type or print name of ASSIGNOR

1F, No.33, Lane 187, Sec.1,
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Duzhuan S. Rd., Da-an District, Taipei City
Nationality Taiwan R.O.C., Republic of China

STEVEN LIN

Type or print name of ASSIGNOR

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Nationality P.O.C., Republic of China, Taiwan

RAY CHUANG

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Nationality ROC, Republic of China, Taiwan

CHI-WEN LIU

Type or print name of ASSIGNOR

3F, No. 561, Nan-Da Rd.,
Address
Hsinchu, Taiwan
Nationality P.O.C., Republic of China, Taiwan

do hereby sell, assign and transfer to

ASSIGNEE:**Taiwan Semiconductor Manufacturing Co.**

No. 8, LI-Hsin Rd. 6

Science Based Industrial Park

Hsin-Chu Taiwan 300-77

R.O.C.

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

 the entire right, title and interest an undivided _____ percent (____%) interest for the United States and its territorial possessions
(check the following box if foreign rights are also to be assigned) and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

Post Eco Multi-Step Anneal/H₂ Treatment To Reduce Film Impurity

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and which is found in

(a) U.S. patent application executed on even date herewith

(b) U.S. patent application executed on _____

(c) U.S. application serial no. _____ filed on _____

(d) U.S. patent no. _____ issued _____
(also check (e) if foreign application(s) is also being assigned)

(e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this

3/10/2004 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Hsien Ping Feng
Signature of ASSIGNEE(S)
Chih-Tsung Lee
Hsi - kwei Cheng
Shih-chi Lin

If ASSIGNEE is a legal entity complete the following information

Type or print the name of the above person authorized to sign on behalf of ASSIGNEE

Title

Note: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be *prima facie* evidence (35 USC 261). Use next page if notarization is desired.

Notarization or Legalization Page Added

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. application serial no. _____ filed on _____
- (d) U.S. patent no. _____ issued _____
(also check (e) if foreign application(s) is also being assigned)
- (e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this

3/10/2004 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Jui-chih Tsai
Signature of ASSIGNOR(S)
Chi-wei Lin

Ming-Yuan Cheng
Ray Chuang

If ASSIGNOR is a legal entity complete the following information

Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

Notarization or Legalization Page Added.